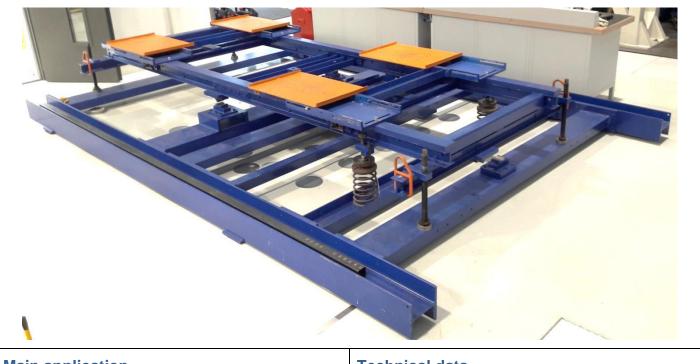




Mol/GoG-test rig



Main application

Calculation of Mol/ CoG of a vehicle •

Specimen

- Passenger vehicles
 - wheelbase: 3300mm 1780mm 0
 - track width: 1130mm 1900mm 0
 - length: 2500mm 4500mm 0
- Max. weight: approx. 3500kg •

Location

Fahrzeugtechnisches Versuchszentrum Dresden Chair of Automobile Engineering August-Bebel-Straße 32 01219 Dresden

Measured values

- Mass of vehicle •
- Center of gravity •
- Moments of inertia around x-, y-, z-axis

Technical data

- Total length: 5000mm
- Width: 3400mm
- Height (without crane): approx. 500mm •

Characteristics

- Plates horizontally adjustable (± 120mm) ٠
- Rotation around x-, y-, z-axis •
- Allowed total weight: approx. 3500kg •
- Max. crane load: 4x 2000kg •

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Measurement devices

- Acceleration sensor •
- Wheel load scale .

- **Components of test rig**
- Wheel load scale on measurement surface (4 pieces) •
- Pendulum frame (adjustable for wheelbase and track width)
- Springs (3 sets for different vehicle loads) •
- Crane with lifting frame used for vehicles •
- Acceleration sensor





Software for controlling and data collection

• Analysis: Matlab, Excel

Available supply in test cell

- 230V- supply
- Three-phase current supply

Reference projects

Diverse investigations for OEM

Contact persons

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